

- 1 -

SEQUENCE LISTING

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10 <120> Methods for Altering T-Cell and Macrophage Activation

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<151> 2000-04-03

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40 Ala Gly Pro Ser Asn Val Pro Lys Phe Gly Ser Pro Lys Pro Pro Val
50 55 60
Ala Val Lys Pro Ser Ser Glu Glu Lys Pro Asp Lys Glu Pro Lys Pro
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Pro Phe Leu Lys Pro Thr Gly Ala Gly Gln Arg Phe Gly Thr Pro Ala

45 Ser Leu Thr Thr Arg Asp Pro Glu Ala Lys Val Gly Phe Leu Lys Pro
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Val Gly Pro Lys Pro Ile Asn Leu Pro Lys Glu Asp Ser Lys Pro Thr
115 120 125

50 Phe Pro Trp Pro Pro Gly Asn Lys Pro Ser Leu His Ser Val Asn Gln
130 135 140
Asp His Asp Leu Lys Pro Leu Gly Pro Lys Ser Gly Pro Thr Pro Pro
145 150 155 160
Thr Ser Glu Asn Glu Gln Lys Gln Ala Phe Pro Lys Leu Thr Gly Val
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55 Lys Gly Lys Phe Met Ser Ala Ser Gln Asp Leu Glu Pro Lys Pro Leu
180 185 190
Phe Pro Lys Pro Ala Phe Gly Gln Lys Pro Pro Leu Ser Thr Glu Asn
195 200 205

Ser His Glu Asp Glu Ser Pro Met Lys Asn Val Ser Ser Ser Lys Gly
 210 215 220
 Ser Pro Ala Pro Leu Gly Val Arg Ser Lys Ser Gly Pro Leu Lys Pro
 225 230 235 240
 5 Ala Arg Glu Asp Ser Glu Asn Lys Asp His Ala Gly Glu Ile Ser Ser
 245 250 255
 Leu Pro Phe Pro Gly Val Val Leu Lys Pro Ala Ala Ser Arg Gly Gly
 260 265 270
 10 Leu Gly Leu Ser Lys Asn Gly Glu Glu Lys Lys Glu Asp Arg Lys Ile
 275 280 285
 Asp Ala Ala Lys Asn Thr Phe Gln Ser Lys Ile Asn Gln Glu Glu Leu
 290 295 300
 Ala Ser Gly Thr Pro Pro Ala Arg Phe Pro Lys Ala Pro Ser Lys Leu
 305 310 315 320
 15 Thr Val Gly Gly Pro Trp Gly Gln Ser Gln Glu Lys Glu Lys Gly Asp
 325 330 335
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 340 345 350
 20 Leu Gly Pro Pro Pro Pro Lys Pro Asn Arg Pro Pro Asn Val Asp Leu
 355 360 365
 Thr Lys Phe His Lys Thr Ser Ser Gly Asn Ser Thr Ser Lys Gly Gln
 370 375 380
 Thr Ser Tyr Ser Thr Thr Ser Leu Pro Pro Pro Pro Ser His Pro
 385 390 395 400
 25 Ala Ser Gln Pro Pro Leu Pro Ala Ser His Pro Ser Gln Pro Pro Val
 405 410 415
 Pro Ser Leu Pro Pro Arg Asn Ile Lys Pro Pro Phe Asp Leu Lys Ser
 420 425 430
 30 Pro Val Asn Glu Asp Asn Gln Asp Gly Val Thr His Ser Asp Gly Ala
 435 440 445
 Gly Asn Leu Asp Glu Glu Gln Asp Ser Glu Gly Glu Thr Tyr Glu Asp
 450 455 460
 Ile Glu Ala Ser Lys Glu Arg Glu Lys Lys Arg Glu Lys Glu Glu Lys
 465 470 475 480
 35 Lys Arg Leu Glu Leu Glu Lys Lys Glu Gln Lys Glu Lys Glu Lys Lys
 485 490 495
 Glu Gln Glu Ile Lys Lys Lys Phe Lys Leu Thr Gly Pro Ile Gln Val
 500 505 510
 40 Ile His Leu Ala Lys Ala Cys Cys Asp Val Lys Gly Gly Lys Asn Glu
 515 520 525
 Leu Ser Phe Lys Gln Gly Glu Gln Ile Glu Ile Ile Arg Ile Thr Asp
 530 535 540
 Asn Pro Glu Gly Lys Trp Leu Gly Arg Thr Ala Arg Gly Ser Tyr Gly
 545 550 555 560
 45 Tyr Ile Lys Thr Thr Ala Val Glu Ile Asp Tyr Asp Ser Leu Lys Leu
 565 570 575
 Lys Lys Asp Ser Leu Gly Ala Pro Ser Arg Pro Ile Glu Asp Asp Gln
 580 585 590
 Glu Val Tyr Asp Asp Val Ala Glu Gln Asp Asp Ile Ser Ser His Ser
 595 600 605
 50 Gln Ser Gly Ser Gly Gly Ile Phe Pro Pro Pro Pro Asp Asp Asp Ile
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 Tyr Asp Gly Ile Glu Glu Glu Asp Ala Asp Asp Gly Phe Pro Ala Pro
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 55 Pro Lys Gln Leu Asp Met Gly Asp Glu Val Tyr Asp Asp Val Asp Thr
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	Leu	Pro	Phe	Pro	Gly	Val	Val	Leu	Lys	Pro	Ala	Ala	Ser	Arg	Gly	Gly
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	Leu	Gly	Leu	Ser	Lys	Asn	Gly	Glu	Glu	Lys	Lys	Glu	Asp	Arg	Lys	Ile
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55	Thr	Lys	Phe	His	Lys	Thr	Ser	Ser	Gly	Asn	Ser	Thr	Ser	Lys	Gly	Gln
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 420 425 430
 5 Pro Val Asn Glu Asp Asn Gln Asp Gly Val Thr His Ser Asp Gly Ala
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 Gly Asn Leu Asp Glu Glu Gln Asp Ser Glu Gly Glu Thr Tyr Glu Asp
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 10 Lys Arg Leu Glu Leu Glu Lys Lys Glu Gln Lys Glu Lys Glu Lys Lys
 485 490 495
 Glu Gln Glu Ile Lys Lys Lys Phe Lys Leu Thr Gly Pro Ile Gln Val
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 15 Leu Ser Phe Lys Gln Gly Glu Gln Ile Glu Ile Ile Arg Ile Thr Asp
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 Asn Pro Glu Gly Lys Trp Leu Gly Arg Thr Ala Arg Gly Ser Tyr Gly
 545 550 555 560
 20 Tyr Ile Lys Thr Thr Ala Val Glu Ile Asp Tyr Asp Ser Leu Lys Leu
 565 570 575
 Lys Lys Asp Ser Leu Gly Ala Pro Ser Arg Pro Ile Glu Asp Asp Gln
 580 585 590
 25 Glu Val Tyr Asp Asp Val Ala Glu Gln Asp Asp Ile Ser Ser His Ser
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 Gln Ser Gly Ser Gly Gly Ile Phe Pro Pro Pro Pro Asp Asp Asp Ile
 610 615 620
 Tyr Asp Gly Ile Glu Glu Glu Asp Ala Asp Asp Gly Ser Thr Leu Gln
 625 630 635 640
 30 Val Gln Glu Lys Ser Asn Thr Trp Ser Trp Gly Ile Leu Lys Met Leu
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 Lys Gly Lys Asp Asp Arg Lys Lys Ser Ile Arg Glu Lys Pro Lys Val
 660 665 670
 35 Ser Asp Ser Asp Asn Asn Glu Gly Ser Ser Phe Pro Ala Pro Pro Lys
 675 680 685
 Gln Leu Asp Met Gly Asp Glu Val Tyr Asp Asp Val Asp Thr Ser Asp
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 Phe Pro Val Ser Ser Ala Glu Met Ser Gln Gly Thr Asn Phe Gly Lys
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 40 Ala Lys Thr Glu Glu Lys Asp Leu Lys Lys Leu Lys Lys Gln Glu Lys
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 Glu Glu Lys Asp Phe Arg Lys Lys Phe Lys Tyr Asp Gly Glu Ile Arg
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 45 Val Leu Tyr Ser Thr Lys Val Thr Thr Ser Ile Thr Ser Lys Lys Trp
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 Gln Thr Thr Asp Asp Thr Lys Val Leu Cys Arg Asn Glu Glu Gly Lys
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Glu Asn Gln Gln Arg Leu Phe Glu Leu Leu Gly Arg Lys Cys Trp Thr Leu
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Ala Thr Thr Val Val Gln Leu Tyr Leu Ala Leu Pro Pro Gly Ala Glu
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His Trp Thr Met Glu His Cys Gly Ala Val Cys Phe Val Lys Asp Asn
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 Pro Gln Lys Ser Tyr Phe Ile Arg Leu Tyr Gly Leu Gln Ala Gly Arg
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 5 Leu Leu Trp Glu Gln Glu Leu Tyr Ser Gln Leu Val Tyr Leu Thr Pro
 100 105 110
 Thr Pro Phe Phe His Thr Phe Ala Gly Asp Asp Cys Gln Val Gly Leu
 115 120 125
 Asn Phe Ala Asp Glu Ser Glu Ala Gln Ala Phe Arg Ala Leu Val Gln
 130 135 140
 10 Glu Lys Ile Gln Lys Arg Asn Gln Arg Gln Ser Gly Glu Arg Arg Gln
 145 150 155 160
 Leu Pro Pro Pro Ala Pro Ile Asn Glu Arg Arg Gly Gly Leu
 165 170 175
 15 Pro Pro Val Pro Pro His Pro Gly Gly Asp His Gly Gly Pro Ser Gly
 180 185 190
 Gly Pro Leu Ser Leu Gly Leu Val Thr Val Asp Ile Gln Asn Pro Asp
 195 200 205
 Ile Thr Ser Ser Arg Tyr Arg Gly Leu Pro Ala Pro Gly Pro Gly Pro
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 Xaa Leu Trp Pro Pro Pro Pro
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			50				55					60				
	Arg	Glu	Val	Ser	Ser	Arg	Asp	Ile	Lys	Glu	Leu	Glu	Lys	Ser	Asn	Lys
			65			70				75				80		
	Val	Arg	Asn	Thr	Asn	Lys	Ala	Asp	Leu	Ile	Ala	Met	Leu	Lys	Glu	Lys
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	Ala	Glu	Lys	Gly	Pro	Asn	Ile	Asn	Asn	Asn	Ser	Glu	Gln	Thr	Glu	
			100					105					110			
	Asn	Ala	Ala	Ile	Asn	Glu	Glu	Ala	Ser	Gly	Ala	Asp	Arg	Pro	Ala	Ile
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	Ala	Lys	Glu	Ser	Val	Ala	Asp	Ala	Ser	Glu	Ser	Asp	Leu	Asp	Ser	Ser
			180					185					190			
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 580 585 590
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 595 600 605
 Gly Asn His Thr Thr Leu Ile Leu Ala Met Leu Ala Ile Gly Val Phe
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10	Gln	Ser	Arg	Lys	Asn	Leu	Phe	Asp	Asn	Gln	Gly	Asn	Ala	Ser	Pro	Pro
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	Ala	Gly	Pro	Ser	Ser	Met	Pro	Lys	Phe	Gly	Thr	Thr	Lys	Pro	Pro	Leu
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	Asn	Ser	Val	Ser	Arg	Asp	Pro	Glu	Val	Lys	Val	Gly	Phe	Leu	Lys	Pro
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20	Val	Ser	Pro	Lys	Pro	Thr	Ser	Leu	Thr	Lys	Glu	Asp	Ser	Lys	Pro	Val
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	Val	Leu	Arg	Pro	Pro	Gly	Asn	Lys	Leu	His	Asn	Leu	Asn	Gln	Glu	Ser
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	Lys	Phe	Met	Pro	Ala	Ala	Gln	Asp	Thr	Asp	Ser	Lys	Pro	Arg	Phe	Pro
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	Asp	Pro	Glu	Asp	Lys	Asp	His	Gly	Ala	Pro	Ser	Ser	Pro	Phe	Pro	Gly
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	Val	Val	Leu	Lys	Pro	Ala	Ala	Ser	Arg	Gly	Ser	Pro	Gly	Leu	Ser	Lys
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40	Asn	Phe	Glu	Glu	Lys	Lys	Glu	Asp	Arg	Lys	Thr	Asp	Leu	Ala	Lys	Asn
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 Tyr Asp Gly Glu Ile Arg Val Leu Tyr Ser Thr Lys Val Ala Ser Ser
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 Glu Ser Leu Glu Val Ile Gln Ser Thr Asp Asp Thr Lys Val Leu Cys
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 45 Arg Asn Glu Glu Gly Lys Tyr Gly Tyr Val Leu Arg Ser Tyr Leu Val
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